

EXPRESS MAIL NO: EL750740834US

Docket No. 00-062-DSK

CLAIMS:

What is claimed is:

- 1 1. A stored data management subsystem, the stored data
2 management subsystem comprising:
3 one or more hosts; and
4 a plurality of data storage elements functionally
5 coupled to the one or more hosts, wherein the plurality
6 of data storage elements is organized using a plurality
7 of layers of mapping tables, the plurality of layer of
8 mapping tables provides unique identification of a
9 location of data such that individual data entries in a
10 mapping table is variable and self-defining with respect
11 to the amount of data managed.
- 1 2. The stored data management system of claim 1,
2 wherein the layers of mapping tables are variable and
3 self-defining.
- 1 3. The stored data management system of claim 1,
2 wherein the layers of mapping tables are implemented
3 individually.
- 1 4. The stored data management system of claim 3,
2 wherein the individual layers of mapping tables are
3 variable.

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1 5. The stored data management system of claim 1,
2 wherein information within the mapping table is by
3 demand.

1 6. The stored data management system of claim 1,
2 wherein a range of data is managed and is correlated to
3 an addressed mapping table within the plurality of
4 mapping tables.

1 7. The stored data management system of claim 6,
2 wherein the correlation is an algorithm.

1 8. The stored data management system of claim 6,
2 wherein the correlation is a pointer system.

1 9. The stored data management system of claim 6,
2 wherein the correlation is a pointer to correlation
3 logic.

1 10. The stored management system of claim 6, wherein the
2 correlation is a tree structure.

1 11. The stored data management system of claim 6,
2 wherein the range of data is managed independent of the
3 layer of mapping tables being accessed within the
4 plurality of layers of mapping tables.